REMARKS

This application contains claims 1-23. Claims 1-9 have been canceled without prejudice. Claims 10-23 are hereby added. No new matter has been introduced. Reconsideration is respectfully requested.

Claims 1-9 were rejected under 35 U.S.C. 103(a) over Park (U.S. Patent 6,191,734) in view of Kuroda (U.S. Patent 4,586,050), while claims 2-9 were rejected over Park and Kuroda and further in view of Walrath (U.S. Patent 5,463,402). In view of the cancellation of claims 1-9, these rejections are now moot.

Applicant is not conceding that the canceled claims are not patentable. Rather, claims 1-9 have been canceled in order solely for the sake of expediting the prosecution of new claims 10-23. Applicant reserves the right to prosecute the subject matter of the canceled claims, as well as new claims based on the original specification, in one or more continuing applications.

New independent claim 10 recites a system for controlling an antenna. The system comprises a motor and angular velocity sensors, which measure the rotation of the antenna about respective axes. An antenna control block calculates a correction to be applied to the measure of rotation that is output by the angular velocity sensors, and causes the motor to change the orientation of the antenna accordingly. Claim 10 thus includes the elements that were recited in claim 1, with additional clarifying language regarding the correction of the measure of rotation provided by the angular velocity sensors. Methods and circuits for performing this correction are described at length in the specification (see paragraphs 0035-0053, referring to the published version of this application, US 2006/0273958).

The cited art neither teaches nor suggests the sort of correction that is recited in claim 10. The passage

in Park (col. 10, line 18 - col. 11, line 18) that was cited by the Examiner in regard to the correction function of the control block describes only beam steering control, based on the strength of signals received by the antenna, and not correcting any sort of measure of rotation. The advantages of correcting the measure of rotation in the manner recited in claim 10 are enumerated in paragraph 0023 of the present patent application.

New dependent claims 11-16 recite further features taken from claim 1-9 as filed. Claim 11, for example, recites the use of an inclination sensor in the calculation of the correction, while claims 12 and 13 recite additional features of the sensor configuration and calculation of the correction by a process of integration. Again, none of these features are taught or suggested by the prior art. Thus, claims 11-13 are believed to be independently patentable, as are claims 14-16.

New claims 17-23 recite methods for controlling an antenna that are similar to the techniques implemented in the systems of claims 10-16.

Applicant believes the amendments and remarks presented hereinabove to be fully responsive to all of the grounds of rejection that were raised by the Examiner. In view of these amendments and remarks, Applicant respectfully submits that all of the claims in the present application are in order for allowance. Notice to this effect is hereby requested.

Respectfully submitted,
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